

# Mitsuhashi and Maramorosch Insect Medium

With Sodium bicarbonate  
1X Liquid Insect Cell Culture Medium

**Product Code: IML002**

## Product Description :

Mitsuhashi and Maramorosch Insect Medium is specially used for the growth and propagation of mosquito cell lines especially *Aedes aegypticus*. It was originally developed to grow cells derived from Leafhopper. Subsequently, it has been used to culture cells derived from a number of insect species.

IML002 is Mitsuhashi and Maramorosch Insect Medium. It needs to be supplemented with 5-20% fetal bovine serum. Lactalbumin hydrolysate serves as a source of free amino acids, whereas yeast extract serves as a source of vitamins. When supplemented with fetal bovine serum, this medium is most commonly used to culture cells derived from a number of mosquitoes. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

## Composition :

Ingredients	mg/L
<b>INORGANIC SALTS</b>	
Calcium chloride dihydrate	190.000
Magnesium chloride anhydrous	46.900
Potassium chloride	200.000
Sodium bicarbonate	120.000
Sodium chloride	7000.000
Sodium phosphate monobasic	173.900
<b>OTHERS</b>	
D(+) Glucose	4000.000
Lactalbumin hydrolysate	6500.000
Yeast extract	5000.000

## Disclaimer :

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**1 Identification of the substances/ mixture and of the company/ undertaking****1.1 Product Identifiers**

Product Number IML002

Product Name **Mitsuhashi and Maramorosch Insect Medium**  
w/ Sodium bicarbonate**1.2 Relevant identified uses of the substance or mixture and uses advised against**

1.2.1 Relevant identified uses Laboratory chemicals, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet**Produced by HiMedia Laboratories Private Limited  
Address 23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086  
India  
Tel. No. +91-22-2500 0970, +91-22-2500 1607 Fax No. : +91-22-25002468  
Mail Id [info@himedialabs.com](mailto:info@himedialabs.com) Website : [www.himedialabs.com](http://www.himedialabs.com)**1.4 Emergency Tel. No.**

Emergency Tel. No. Please contact the regional HiMedia representation in your country

**2 Hazards Identification****2.1 Classification of the substance or mixture*****CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]***Not a hazardous substance or mixture  
according to Regulation (EC) No.1272/2008**2.2 Label elements*****Labeling according to Regulation (EC) No.1272/2008***

The product does not need to be labelled in accordance with EC directives or respective national laws.

**2.3 Other Hazards**

None

**3 Composition/Information On Ingredients**

No components need to be disclosed according to the applicable regulations.

**4 First Aid Measures****4.1 Description of first aid measures*****General advice***

Show this safety data sheet to the doctor in attendance.

***If inhaled***

If breathed in, move person into fresh air. Consult a physician.

***In case of skin contact***

Wash off with soap and plenty of water. If skin irritation occurs, get medical advice/attention.

***In case of eye contact***

Rinse out with plenty of water with the eyelid held wide open. If eye irritation persists, get medical advice/attention.

***If swallowed***

Rinse mouth with water. Consult a physician if feeling unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

**4.3 Indication of immediate medical attention and special treatment needed**

No data available

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**5 Fire Fighting Measures**

**5.1 Extinguishing media**

***Suitable extinguishing media***

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

***Unsuitable extinguishing media***

**5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products unknown

**5.3 Precautions for fire-fighters**

No data available.

**5.4 Further information**

Wear self-contained breathing apparatus for firefighting if necessary.

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**6 Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personnel protective equipment. Wear disposable gloves, dust mask and eye protection. Avoid dust formation. For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

**6.3 Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see Section 13.

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**7 Handling and Storage**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended Storage Temperature** : Store at 15-30°C

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## 8 Exposure Controls/Personal Protection

### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

#### *Appropriate engineering controls*

Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the products.

#### *Personal protective equipment*

##### *Hygiene measure*

Avoid contact with skin, eyes and clothing. Immediately change contaminated clothing.

##### *Eye/face protection*

Safety glasses with side-shields conforming to EN 166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

##### *Skin protection*

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### *Body protection*

Impervious clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### *Respiratory protection*

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### *Environment exposure controls*

Do not let product enter drains.

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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Yellow to pale yellow colored clear solution
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Upper/lower flammability or explosive limits	No data available
Evaporation rate	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available

Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapour density	No data available
Thermal decomposition	No data available

## 9.2 Other safety information

No data available

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## 10 Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

None under normal use conditions. Other decomposition products. No data available. In event of fire - refer section 5

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## 11 Toxicological Information

### 11.1 Information on toxicological effects

#### *Acute toxicity*

No data available

#### *Skin corrosion/irritation*

No data available

#### *Serious eye damage/eye irritation*

No data available

#### *Respiratory or skin sensitisation*

No data available

#### *Germ cell mutagenicity*

No data available

#### *Carcinogenicity*

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### *Reproductive toxicity*

No data available

#### *Specific target organ toxicity- single exposure*

No data available

***Specific target organ toxicity - repeated exposure***

No data available

***Aspiration hazard***

No data available

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**12 Ecological Information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 PBT and vPvB assessment**

PBT and vPvB assessment not available Chemical safety assessment is not required

**12.6 Other adverse effects**

No data available

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**13 Disposal Considerations**

**13.1 Waste treatments methods**

**Product**

Offer surplus and non-recyclable solutions to a licenced disposal company. Dispose off waste in accordance with all applicable Federal, state and local laws.

**13.2 Contaminated packaging**

Dispose in accordance with all applicable federal, state, and local environmental regulations.

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**14 Transport Information**

**14.1 UN-No**

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

**14.2 UN proper shipping name**

ADNR : Not dangerous goods

ADR : Not dangerous goods

IATA\_C : Not dangerous goods

IATA\_P : Not dangerous goods

IMDG : Not dangerous goods

RID : Not dangerous goods

**14.3 Transport hazard class(es)**

ADNR : - ADR : - IATA\_C : - IATA\_P : - IMDG : - RID : -

**14.4 Packaging group**

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

**14.5 Environmental hazards**

**14.6 Special precautions for use**

No data available

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**15 Regulatory Information**

This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

**15.1 Safety health and environment regulations/legislation specific for the substance or mixture**

No data available

**15.2 Chemical Safety Assessment**

No data available

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**16 Other information**

**Further Information**

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